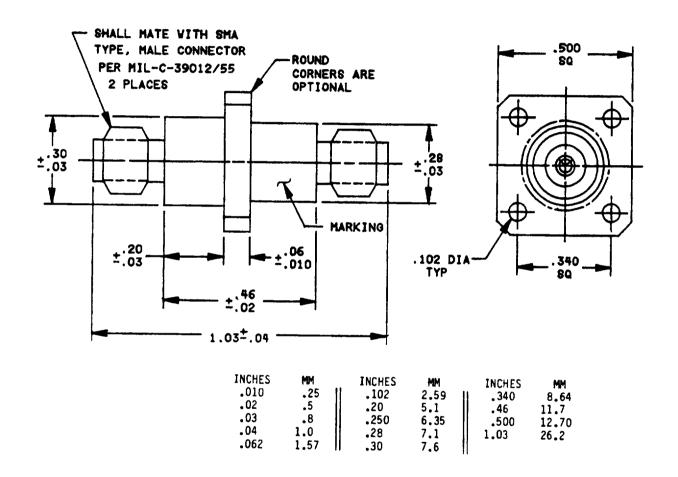
MILITARY SPECIFICATION SHEET

ATTENUATOR, FIXED, COAXIAL LINE, (SMA CONNECTORS), BULKHEAD, CLASS IV, LOW POWER

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for acquiring the attenuators described herein shall consist of this specification and the latest issue of MIL-A-3933.



NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerance is \pm .005 (.13 mm).

FIGURE 1. Dimensions and configuration.

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MIL-A-3933/24A

ENGINEERING DATA:

Class: IV.

Operating frequency range: 2 to 12.4 GHz.

Test frequencies for YSWR and attenuation measurements: 2, 4, 8, and 12.4 GHz.

Basic test frequency: 8 GHz.

Operating temperature range: -55°C to $+125^{\circ}\text{C}$. Power input is derated linearly from $+25^{\circ}\text{C}$ to 0.2 watt at $+125^{\circ}\text{C}$.

Maximum weight: 0.45 oz.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Nominal impedance: 50 ohms.

Attenuation: See table I for attenuation values and tolerances.

VSWR: (1.07 +.015f):1 (Where f is the frequency in GHz).

Power input:

Average: 2 watts at 25°C.

Peak: 100 watts (Duty cycle of 5 percent and a maximum pulse width of 10

microseconds).

Part number: M3933/24- (and dash number from table I).

TABLE I. Attenuation values.

Dash number	Attenuation (dB)	
01 N S	10	*0.3
02 N S	15 	*0.5
03 N S	20 	±0.5

Note: Attenuators covered by this specification sheet are substitutable for the manufacturer's part numbers specified in table II. This information in no way implies that manufacturer's part number is suitable as a substitute for the military part number.

TABLE II. Substitution information.

M111tary part number M3933/24~	Manufacturer's code	 Manufacturer's part number 	NSN NSN
01	97942	583R575H10	1270-01-083-3368
02	97942	1 583R575H15	
03	97942	r 1 583R575420 1	

Custodians. Army - ER Navy - EC Air Force - 85

Review activities: Army ~ MI Air Force - 11, 99 DLA ~ ES

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Preparing activity: Navy - EC

(Project 5985-0993-16)

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